

Personal Systems Reference Lenovo® ThinkVision® Monitors

September 2011 - Version 407



ThinkVision L2321x Wide Monitor

D186 Wide Flat Panel Monitor Name Case color **Business black** Type-model 2580-AB1 Panel TFT-LCD, twisted nematic (TN), CCFL backlight **18.5**" (**470mm**) diagonal 16.1" x 9.1" / 409.8mm x 230.4mm Viewable image size Max view area (W x H) Optimum resolution 1366x768 at 60Hz Maximum resolution 1366x768 at 60Hz (135MHz max pixel rate) Aspect ratio 16:9 Pixel pitch (mm) .300mm Dot/Pixel per Inch 85 dpi Brightness 200 nits or cd/m2 (typical) Contrast ratio 600:1 (typical) Pixel response time 5ms (typical) Color gamut 67% Anti-reflective Anti-reflective, anti-glare Viewing angle at 10:1 CR 90° (+/- 45°) horizontal, 50° (+/- 25°) vertical Tilt adjustable stand Stand Sides: 0.61" (15.6mm); top: 0.67" (17.1mm); bottom: 1.19" (30.1mm)
14.6" H x 17.4" W x 8.3" D; 370mm H x 442mm W x 210mm D Bezel width Dimensions (HxWxD) 16 watts typical, 24 watts maximum, Power supply <1 watts standby/suspend, universal, integrated (no external brick-like power supply) 7.28 lb; 3.3kg Weight **3 years** (includes backlight) January 2010 Limited warranty4 Available date VESA-compliant² VESA DDC2B/CI, VESA DPMS-compliant Power management None **Ergonomics** ISO 9241-307 Pixel defect ISO 9241-307 pixel defect standard Emission standards FCC Class B Environmental WEEE, RoHS (EU Directive 2002/95/EC), Preset resolutions VGA: 640x350, 640x480, 720x400 SVGA: 800x600 XGA: 1024x768 WXGA: 1280x720, 1280x768 1360x768, 1366x768

Features

- Widescreen 18.5-inch monitor
- High Definition (HD) ready; 1366x768 resolution
- Detachable stand tilts for comfortable viewing
- Supports VESA mount (100mm)
- 50% less mercury
- Kensington® lock slot ready for enhanced security



Lenovo D186 Wide Monitor

Viewing adjustments Tilt: 20° back, -5° forward; no lift; no swivel; detachable stand Rotating screen On screen display On screen display with digital user controls (8 languages) Control features Direct access (control buttons on front) for automatic image setup and adjustment for brightness

Standard presets: 20; user settings: 16

USB hub None Multiple input None

Presets

VGA 15-pin D-shell, analog, blue Monitor connectors

Signal cables

Detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

Security keyhole for attachment of optional cable lock (Kensington lock-compatible) Mounting features Security

Ship group Monitor, attached stand, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter black power cord

Limited Warranty	Accessories	
⇒ 3 year limited warranty ⁴	Kensington MicroSaver® Cable Lock	73P2582
International Warranty Service⁵	Kensington Twin Head Cable Lock	45K1620
Rapid Replacement Service at 1-800-426-7378	Lenovo Easy Reach Monitor Stand	55Y9258
Replacement normally arrives in two business days, excluding holidays		
Service upgrade options: ⁷		
 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209) 	See details at www.lenovo.com/support/mo	nitoraccessories
• 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212)	See all monitors at www.lenovo.com/thinkvi	sion
• 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)		
• 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)		
4 year, mail exchange (51J0589)		
• 5 year, mail exchange (51J0590)		
24x78 day toll-free support for warranty issues during the warranty period4		

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L2021 Wide Flat Panel Monitor Name

Case color **Business black**

Type-model 4449-HB1

Panel TFT-LCD, twisted nematic (TN), CCFL backlight

20.0" / 508mm (diagonal) 17.4" x 9.8" / 443mm x 249mm Viewable image size Max view area (W x H)

Optimum resolution 1600x900 at 60Hz

Aspect ratio 16:9 Pixel pitch (mm) 0.277mm Dot/Pixel per Inch 92 dpi

Brightness 250 nits or cd/m2 (typical)

Contrast ratio 1000:1 (typical) Pixel response time 5ms (typical) Color gamut

Anti-reflective Anti-reflective, anti-glare Vertical frequency 50 to 75 Hz

Horizontal frequency 31 to 81 kHz

Viewing angle at 5:1 CR Viewing angle at 10:1 CR 178° (+/- 89°) horizontal, 170° (+/- 85°) vertical 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical Tilt adjustable stand Stand

Int adjustable stand

Sides: 0.48" (12.1mm);

top: 0.47" (11.9mm);

bottom: 0.39" (10.1mm)

14.1" H x 18.7" W x 5.9" D;

357.5mm H x 475.9mm W x 151.2mm D

22 watts typical, 27 watts maximum, Bezel width Dimensions (HxWxD)

Power supply <1 watts standby/suspend, universal, integrated (no external brick-like power supply)

9.24 lb; 4.2kg Weight Limited warranty4 3 years

(includes backlight) September 2010 Available date

VESA DDC2B/CI, VESA DPMS-compliant VESA-compliant²

Power management ENERGY STAR®3 5.0 Ergonomics ISO 9241-307 Emission standards

MPR-2, FCC Class B
EPEAT™ Gold rating, TCO (TCO Displays 5.0),
WEEE, RoHS (EU Directive 2002/95/EC) Environmental

Preset resolutions VGA: 640x350, 640x480, 720x400

SVGA: 800x600, 832x624 1024x768, 1152x864 1280x720, 1280x768, XGA: WXGA: 1280x800, 1366x768 1280x1024 SXGA:

WXGA+: 1440 x 900, 1600x900 Presets / user settings Standard presets: 25; user settings: 20

Viewing adjustments Tilt: 20° back, -5° forward; detachable stand

Rotating screen None

On screen display On screen display with digital user controls (8 languages) Control features Direct access (control buttons on front) for automatic image setup USB hub

Multiple input

Multiple input (two different PCs attach to two different connectors; one PC shows image; select via button) Monitor connectors

Signal cables

Mounting features

Multiple input (two different PCs attach to two different connectors; one PC shows image, select via button)
(1) VGA 15-pin D-shell, analog, blue
(2) Digital Visual Interface (DVI-D) for digital attach [white], HDCP-compliant
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DVI-D at each end (for digital connector), 1.8 meter
Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (75mm mount)
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Security

Monitor, attached stand, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, analog signal cable, digital signal cable, 1.8m power cord Ship group

Limited Warranty

- 3 year limited warranty⁴
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims⁶
- ⇒ Service upgrade options:⁷
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212)
 - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
 - 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)
 - 4 year, mail exchange (51J0589)
 - 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period

Features

- All-purpose 20-inch wide flat panel LCD monitor
- View images in a 16x9 wide aspect ratio
- High-bandwidth Digital Content Protection (HDCP)-compliant
- Tilt and cable management stand
- Compliance with ENERGY STAR 5.0
- 50% less mercury
- Microsoft® Windows® 7 certified



Lenovo L2021 Wide Monitor

Lenovo L2021 Wide Monitor rear view with cable management



Accessories

ThinkVision Soundbar Kensington® MicroSaver® Cable Lock 45K1263 73P2582 Kensington Twin Head Cable Lock 45K1620

See details at www.lenovo.com/support/monitoraccessories

LS2221 Wide Flat Panel Monitor Name **Features** High gloss black 5453-LS1 Case color Widescreen 21.5-inch monitor Type-model • Supports Full HD 1920x1080 resolution Panel TFT-LCD, twisted nematic (TN), White LED backlight · Ergonomic stand tilts **21.5"** (**546mm**) diagonal 18.76" x 10.55" (476.6mm x 268.1mm) **1920x1080** Viewable image size Includes dual input connection for attachment to two Max view area (W x H) systems concurrently (analog and digital) Native resolution Mercury free panel and arsenic free glass Aspect ratio 16:9 Microsoft® Windows® 7 certified Pixel pitch (mm) .248mm Dot/Pixel per Inch 103 dpi Brightness 250 nits or cd/m2 (typical) 1000:1 (typical) 10000000:1 Contrast ratio Dynamic contrast ratio Pixel response time 5ms (typical) Color gamut Viewing angle at 10:1 CR 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical Tilt adjustable stand Stand Sides: 0.925" (23.5mm) 15.38" H x 20.67" W x 7.08" D; 390.7mm H x 525.0mm W x 179.8mm D Bezel width Dimensions (HxWxD) 18 watts typical, 30 watts maximum, <1 watts standby/suspend, universal, Power supply integrated (no external brick-like power supply) 8.69 lb; 3.95 kg

3 year (includes backlight) Weight Limited warranty4 Available date August 2011 VESA-compliant² VESA DDC2B/CI, VESA DPMS-compliant ENERGY STAR® 5.1 Power management **Ergonomics** ISO 9241-307 Emission standards FCC Class B Environmental TCO (TCO Displays 5.2), WEEE, RoHS 640x350, 640x480, 720x400 800x600, 832x624 1024x768, 1152x864 1280x1024 Preset resolutions VGA: SVGA: XGA: SXGA: 1280x800, 1280x768, 1366x768 1440x900, 1600x900 WXGA: WXGA+: 1680x1050 WSXGA+: Full HD: 1920x1080 Standard presets: 32 (VGA), 32 (DVI); Presets / user settings Lenovo LS2221 Wide Monitor user settings: 20 Viewing adjustments Tilt: 20° backward, -5° forward Rotating screen None On screen display with digital user controls (8 languages)
Direct access (buttons on front) for automatic image setup, dual input and NOVO vision On screen display Control features Dual input (two different PCs attach to two different connectors; one PC shows image; select via button) Multiple input Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)
(1) VGA 15-pin D-shell, analog, blue
(2) Digital Visual Interface (DVI-D), digital, white, **HDCP-compliant**(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DVI-D at each end, digital, 1.8 meter
Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Monitor connectors Signal cables

Limited Warranty	Accessories	
 ⇒ 3 year limited warranty⁴ ⇒ International Warranty Service⁵ ⇒ Rapid Replacement Service at 1-800-426-7378 ⇒ Replacement normally arrives in two business days, excluding holidays ⇒ Lenovo pays all shipping costs for valid warranty claims⁶ 	Kensington® MicroSaver® Cable Lock 73P2582 Kensington Twin Head Cable Lock 45K1620 Lenovo Easy Reach Monitor Stand 55Y9258 ThinkCentre Extend Arm 57Y4352	
 Service upgrade options:⁷ • 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209) • 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233) • 4 year, mail exchange (51J0589) • 5 year, mail exchange (51J0590) 	See details at www.lenovo.com/support/monitoraccessories See all monitors at www.lenovo.com/thinkvision	
 24x78 day toll-free support for warranty issues during the warranty period⁴ 	an managa at a ministration	

Monitor, attached stand, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter digital signal cable, 1.8 meter black power cord

Mounting features Security Security

Ship group

LS2421p Wide Flat Panel Monitor Name High gloss black 4015-LS1 Case color Type-model Panel TFT-LCD, twisted nematic (TN), White LED backlight **23.6"** (**598mm**) diagonal 20.52" x 11.54" (521.3mm x 293.2mm) Viewable image size Max view area (W x H) 1920x1080 Native resolution Aspect ratio 16:9 Pixel pitch (mm) .272mm Dot/Pixel per Inch 93 dpi Brightness 300 nits or cd/m2 (typical) 1000:1 (typical) 10000000:1 Contrast ratio Dynamic contrast ratio Pixel response time 5ms (typical) Color gamut Viewing angle at 10:1 CR 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical Tilt adjustable stand Stand Sides: 0.968" (24.6mm) 13.78" H x 22.44" W x 7.47" D; 350.0mm H x 572.0mm W x 189.8mm D Bezel width Dimensions (HxWxD) 30 watts typical, 35 watts maximum, Power supply <1 watts standby/suspend, universal, integrated (no external brick-like power supply) 9.79 lb; 4.44 kg

3 year (includes backlight) Weight Limited warrantv4 Available date August 2011 VESA DDC2B/CI, VESA DPMS-compliant VESA-compliant² Power management **ENERGY STAR® 5.1** ISO 9241-307 Ergonomics Emission standards FCC Class B Environmental TCO (TCO Displays 5.2), WEEE, RoHS Preset resolutions 640x350, 640x480, 720x400 800x600, 832x624 VGA: SVGA: XGA: 1024x768, 1152x864 1280x1024 SXGA: 1280x800, 1280x768, 1366x768 WXGA: WXGA+: 1440x900, 1600x900 WSXGA+: 1680x1050 1920x1080 Full HD: Presets / user settings Standard presets: 30 (VGA), 27 (HDMI); user settings: 20 Tilt: 20° backward, -5° forward Viewing adjustments

Features

- Widescreen 23.6-inch monitor
- Supports Full HD 1920x1080 resolution
- · Ergonomic stand tilts
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- Mercury free panel and arsenic free glass
- Microsoft® Windows® 7 certified



Lenovo LS2421p Wide Monitor

Rotating screen

On screen display On screen display with digital user controls (8 languages)

Direct access (buttons on front) for automatic image setup, dual input, brightness and NOVO vision Control features

USB hub USB 2.0 Hub (1 port into PC, 4 ports for accessories)

Multiple input Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

Monitor connectors

Signal cables

Dual input (two different PCs attach to two different connectors; one PC snows image; select via button)
(1) VGA 15-pin D-shell, analog, blue
(2) HDMI (1.3), digital, black, **HDCP-compliant**(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, HDMI at each end, digital, 1.8 meter
Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Mounting features Security Security

Ship group Monitor, attached stand, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter digital signal cable, 1.8 meter black power cord

Limited Warranty

- 3 year limited warranty⁴
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims
- Service upgrade options:7
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
 - 4 year, mail exchange (51J0589)
 - 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period4

Accessories

Kensington® MicroSaver® Cable Lock 73P2582 Kensington Twin Head Cable Lock 45K1620 Lenovo Easy Reach Monitor Stand 55Y9258 ThinkCentre Extend Arm 57Y4352

See details at www.lenovo.com/support/monitoraccessories

Viewable image size

L2461x Wide Flat Panel Monitor Name High gloss black with metal gray 2467-HE1 |4015-H Case color Type-model 4015-HB1

Panel TFT-LCD, twisted nematic (TN), white LED backlight

supports multi-touch fuction

23.6" (**599mm**) diagonal 20.5" x 11.5" / 521.3mm x 293.2mm Max view area (W x H)

1920x1080 Optimum resolution Aspect ratio 16:9 Pixel pitch (mm) .272mm Dot/Pixel per Inch 93 dpi

Brightness 300 nits or cd/m2 (typical)

Contrast ratio 1000:1 (typical) Pixel response time 5ms (typical)

Display enhancement 120 Hz MEMC (double frame tech), MPRT<10ms

Color gamut

Anti-reflective Anti-reflective, anti-glare

Vertical frequency 50 to 75Hz Horizontal frequency 30 to 83kHz

Viewing angle at 10:1 CR 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical

Tilt adjustable stand Sides: 0.80" (20.4mm) 16.69" H x 22.40" W x 6.57" D; 423.8mm H x 569.0mm W x 167.0mm D Stand Bezel width Dimensions (HxWxD)

Power supply 27 watts typical, 65 watts maximum,

external power adapter with attached 1.8 m DC cord 17.9 lb; 8.1kg

Weight Limited warranty4

1 year 3 year

(includes backlight) (includes backlight) Available date March 2010 March 2010

VESA-compliant² VESA DDC2B/CI, VESA DPMS-compliant

Power management ENERGY STAR^{®3} 5.0 ISO 9241-307 MPR-2, FCC Class B Ergonomics Emission standards

Environmental TCO Displays 5.0, WEEE, RoHS

Preset resolutions VGA: 640x350, 640x480

SVGA: 800x600, 832x624 XGA: 1024x768,1152x864

SXGA: 1280x1024 WXGA: 1366x768 1440x900: WXGA+: WSXGA+: 1680x1050 WUXGA: 1920x1080

Presets / user settings Presets: 26 (VGA), 24 (HDMI); user settings: 20

Tilt: 10°-60° back, 0° forward; adjustable stand Viewing adjustments

Rotating screen None

On screen display

On screen display with digital user controls (8 languages)
Direct access (touch-sensitive buttons on front) for Windows shortcuts, speaker volume control, light bar adjustment, Control features

and monitor OSD controls

USB 2.0 Hub (1 port into PC, 4 ports for accessories) USB hub

Multimedia Integrated speakers (Bass Enhanced, 3 watts x 2), 3.5mm Headset audio out

Camera module Integrated camera (2.0 megapixel) and dual array microphone

Light bar Background light up to 256 colors, light bar adjustment via touch-sensitive button

Multiple input Dual input (two different PCs attach to two different connectors; one PC shows image; select via touch-sensitive button)

Monitor connectors

(1) VGA 15-pin D-shell, analog, blue (2) HDMI (1.3), digital, black, **HDCP-compliant** (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

Signal cables (2) detachable, HDMI at each end, digital, 1.8 meter

Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Mounting features

Security Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

Ship group Monitor, attached stand, cable cover, power adapter (1.8 meter DC cord + 1.0 meter power cord), Setup poster,

Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog

signal cable, 1.8 meter HDMI cable, 1.8 meter USB cable, 1.8 meter audio cable

Limited Warranty

2467: 1 year limited warranty⁴

Rapid Replacement Service at 1-877-453-6686 4015: 3 year limited warranty

International Warranty Service⁵

Rapid Replacement Service at 1-800-426-7378

Replacement normally arrives in two business days, excluding holidays

Lenovo pays all shipping costs for valid warranty claims⁶

24x78 day toll-free support for warranty issues during the warranty period4

Accessories

Kensington MicroSaver® Cable Lock Kensington Twin Head Cable Lock 73P2582 45K1620 Lenovo Easy Reach Monitor Stand 55Y9258

See details at www.lenovo.com/support/monitoraccessories

See all monitors at www.lenovo.com/thinkvision

Features

· Widescreen 23.6-inch monitor with white LED backlight

• 1080p full HD support, HDCP-compliant

• Full screen multi-touch designed for Windows® 7 Supports 120Hz MEMC technology (Motion Estimation,

Motion Compensation)

10-60 degree easily adjustable stand and VESA mount
 Integrated camera (2.0 megapixel) and microphone
 Light bar supports up to 256-color background light

Mercury free panel

Easy navigation capacitive touch buttons
Microsoft® Windows 7 certified



L2461x Wide Monitor

LT1421 Wide Mobile Monitor Name

Case color Raven black

Type-model 1452-DS6 (with Protective Cover) Panel

TFT-LCD, twisted nematic (TN), White LED backlight Viewable image size

14.0" (**355.6mm**) diagonal 12.2" x 6.9" (310.8mm x 175.3mm) Max view area (W x H)

Optimum resolution 1366x768 Aspect ratio 16:9 Pixel pitch (mm)
Dot/Pixel per Inch .227mm 112 dpi

Brightness 200 nits or cd/m2 (typical)

400:1 (typical) 8ms (typical) Contrast ratio Pixel response time

Color gamut 45% 90° (+/- 45°) horizontal, 50° (+/- 25°) vertical Viewing angle at 10:1 CR

Tilt adjustable stand Stand Bezel width

8.58" H x 13.19" W x 0.37-0.85" D; 217.9mm H x 335mm W x 9.3-21.5mm D Dimensions (HxWxD) Power supply 4.2 watts typical, 5 watts maximum,

4.2 watts ylpical, 3 watts maximum,
<o.1 watts standby/suspend, universal,
USB 2.0 cable (no external brick-like power supply)
monitor only: 1.8 lb; 0.84 kg;
with Protective Cover: 2.25 lb; 1.02 kg

3 year (includes backlight)

Weight

Limited warranty4

Available date September 2011

VESA DDC2B/CI, VESA DPMS-compliant ENERGY STAR®3 5.1 VESA-compliant²

Power management Emission standards FCC Class B Environmental WEEE, RoHS

Preset resolutions Display mode and resolution auto setup

Polycarbonate Snap-On Cover protects the LCD Protective Cover

Screen while not in use

Features

- Widescreen 14-inch mobile monitor designed for ThinkPad
- Light and Slim
- Super low power (<5 watts)
- Supports 1366x768 resolution Ergonomic stand tilts, provides a 12° - 40° backward tilt adjustment for comfortable viewing
- Detachable USB cable for power and signal
 Microsoft® Windows® 7 certified



ThinkVision LT1421 Wide Mobile Monitor



ThinkVision LT1421 Wide Mobile Monitor with ThinkPad Edge E420s

Viewing adjustments

Tilt: 12° - 40° backward Screen control Brightness (16 levels) **USB** input

Input Monitor connectors USB 2.0

detachable, USB Y-Type cable, 1.8 meter Signal cables

Mounting features

Security Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

Ship group

Monitor, attached tile stand that cannot be removed, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter USB Y-Type cable, Protective Cover

Limited Warranty

- 3 year limited warranty⁴
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims⁶
- Service upgrade options:7
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
 - 4 year, mail exchange (51J0589)
 - 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period4

Accessories

Kensington® MicroSaver® Cable Lock 73P2582 Kensington Twin Head Cable Lock 45K1620

See details at www.lenovo.com/support/monitoraccessories

L1711p Flat Panel Monitor Name Case color Business black Type-model 5047-HB2 Panel TFT-LCD, twisted nematic (TN), CCFL backlight **17.0"** (**432mm**) diagonal 13.3" x 10.6" (337.9mm x 270.3mm) Viewable image size Max view area (W x H) Optimum resolution 1280x1024 at 60Hz Maximum resolution 1280x1024 at 75Hz (165MHz max pixel rate) Aspect ratio Pixel pitch (mm) 0.264mm Dot/Pixel per Inch 96 dpi Brightness 250 nits or cd/m2 (typical) Contrast ratio 1000:1 (typical) Pixel response time 5ms (typical) Color gamut 72% Anti-reflective Anti-reflective, anti-glare 50 to 75Hz Vertical frequency Horizontal frequency 30 to 83kHz Viewing angle at 10:1 CR 160° (+/- 80°) horizontal, 160° (+/- 80°) vertical Tilt height adjustable stand Stand Sides: 0.6" (15.3mm); top: 0.72" (18.4mm); bottom: 1.11" (28.1mm) 16-20.33" H x 14.6" W x 6.1" D; 405.7-515.7mm H x 370mm W x 155.2mm D Bezel width Dimensions (HxWxD) 18 watts typical, 21 watts maximum. Power supply <1 watts standby/suspend, universal, integrated (no external brick-like power supply) 9.3 lb; 4.21kg Weight 3 year (includes backlight) Limited warranty4 Available date November 2009 VESA DDC2B/CI, VESA DPMS-compliant VESA-compliant² **ENERGY STAR® 5.0** Power management **Ergonomics** ISO 9241-307 Emission standards MPR-2. MPR-3A, FCC Class B TCO (TCO Displays 5.0), WEEE, RoHS, Environmental **EPEAT™** Gold rating Preset resolutions 640x350, 640x480, 720x400 VGA: SVGA: 800x600 XGA: 1024x768 SXGA: 1280x1024 Standard presets: 17; Presets / user settings user settings: 22

Features

- Regular screen 17-inch monitor
- Supports SXGA 1280x1024 resolution
- Ergonomic stand tilts and provides a 4.3" (110mm) range height adjustment for comfortable viewing
- Includes dual input connection for attachment to two systems concurrently (analog and digital)

 Reduces mercury content by 50% and arsenic free glass
- Up to 70% recycled packaging materials
- Privacy Filter Ślot
- Microsoft® Windows® 7 certified



ThinkVision L1711p Monitor

Viewing adjustments Tilt: 20° back, -3° forward; lift: 4.3" (110mm); detachable stand Rotating screen None On screen display On screen display with digital user controls (8 languages) Control features Direct access (buttons on front) for automatic image setup Multiple input

Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

Monitor connectors

(1) VGA 15-pin D-shell, analog, blue (2) Digital Visual Interface (DVI-D), digital, white, **HDCP-compliant** (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter (2) detachable, DVI-D at each end, digital, 1.8 meter Signal cables

Mounting features Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Security Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

Monitor, attached stand, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter digital signal cable, 1.8 meter black power cord Ship group

Limited Warranty

- 3 year limited warranty⁴
- ➢ International Warranty Service⁵
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims⁶
- Service upgrade options:7
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212)
 - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9215)
 - 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)
 - 4 year, mail exchange (51J0589)
 - 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period4

Accessories

ThinkVision Soundbar	45K1263
Kensington® MicroSaver® Cable Lock	73P2582
Kensington Twin Head Cable Lock	45K1620
Lenovo Easy Reach Monitor Stand	55Y9258

See details at www.lenovo.com/support/monitoraccessories

Flat Panel Monitors - US model

L197 Wide Flat Panel Monitor Name

Case color **Business black** Type-model 4434-HE1 Stand Tilt stand

LCD Active Matrix TFT (Thin Film Transistor) Screen

Viewable image size (diag) 19.0" / 481mm (diagonal)

Aspect ratio 16:10 Pixel pitch (mm) .285mm

Max view area (inches) 16.1" x 10.0" (horizontal x vertical) Max view area (mm) 408mm x 255mm (horizontal x vertical) Viewing angle at 5:1 CR 176° vertical, 176° horizontal 160° vertical, 170° horizontal

Viewing angle at 10:1 CR

Digital or analog (two separate connectors)

Dual input (two different PCs attach to two different Video input Dual input connectors; one PC shows image; select via button) Rotating screen No pivot

USB Hub None

1440x900 at 60Hz Optimum resolution

1440x900 at 75Hz (137MHz maximum pixel rate) Maximum resolution Vertical frequency 50 to 76Hz

Horizontal frequency 30 to 81kHz

Preset display modes VGA: 640x480 60, 66, 72, 75Hz

70Hz 640x350 720x400 70Hz

SVGA: 800x600 56, 60, 72, 75Hz 832x624 75Hz 60, 70, 75Hz XGA: 1024x768 1152x864 75Hz

1280x1024 60, 70, 75Hz WXGA+: 1440x900 60, 75Hz Standard presets: 20; user settings: 20

Presets / user settings Brightness 250 nits or cd/m² (typical)

Contrast ratio 1000:1 (typical) Pixel response time 5ms (typical)

Color gamut On screen display

Control features

On screen display with digital user controls (7 languages) Direct access (buttons on front) for automatic image setup

Monitor connectors Two connectors: (1) analog VGA 15-pin D-shell [blue],

(2) Digital Visual Interface (DVI-D) for digital (not analog) attach [white], **HDCP-compliant**(1) detachable, VGA 15-pin D-shell at each end (for analog connector), 1.8 meter, matches color of monitor
(2) detachable digital, DVI-D at each end (for digital connector), 1.8 meter, matches color of monitor Signal cables Two cables:

Anti-reflective, anti-glare 15.0"H x 17.3"W x 7.0"D / 381mm height x 440mm width x 179mm depth Anti-reflective **Dimensions**

9.15lb / 4.15kg

Viewing adjustments Tilt: 30° back, 4° forward / no lift, no swivel, detachable stand

Mounting features Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Security Security

VESA-compliant² VESA DDC2B/CI, VESA DPMS-compliant

Power management Ergonomics

Pixel defect

Emission standards

Environmental

VESA DDU2B/CI, VESA DFWS-Compliant
ENERGY STAR® 5.0
ISO 13406 Part 2¹
ISO 13406-2 Class II pixel defect standard
MPR-2, MPR-3A, FCC Class B
TCO 03, WEEE, RoHS (EU Directive 2002/95/EC), EPEAT™ Gold rating
Monitor, attached stand, Setup Guide, Safety and Warranty Information, CD with multilingual User's Guide and Ship group

monitor installation files, analog signal cable, digital signal cable, 1.8m black power cord

Power supply 90-264Vac (universal), integrated (no external brick-like power supply), 22 watts typical, <2 watts standby/suspend Limited warranty4 3 year (includes backlight)

Available date April 2008

Features

- Widescreen 19-inch flat panel monitor
- EPEAT™ Gold rating
- View images in a 16:10 wide aspect ratio
- Resolution of 1440x900 provides crisp screen images
- Slim 14.3mm (0.56") side bezel
- High-bandwidth Digital Content Protection (HDCP)-compliant
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- Complements the ThinkCentre® and ThinkPad® systems
 Microsoft® Windows® Vista™ Premium certified



Lenovo ThinkVision L197 Wide

Limited Warranty

- 3 year limited warranty⁴
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims⁶
- Service upgrade options:7
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212)
 - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
 - 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)
 - 4 year, mail exchange (51J0589)
- 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period4

Accessories

ThinkVision® USB Soundbar 40Y7616 Kensington® MicroSaver® Cable Lock 73P2582 Kensington Twin Head Cable Lock 45K1620 Lenovo Easy Reach Monitor Stand 55Y9258

See details at www.lenovo.com/support/monitoraccessories

Name L1900p Flat Panel Monitor Case color Business black Type-model 4431-HE1 Panel TFT-LCD, twisted nematic (TN), CCFL backlight **19.0"** (**483mm**) diagonal 14.8" x 11.85" (376mm x 301mm) Viewable image size Max view area (W x H) Optimum resolution 1280x1024 at 60Hz Maximum resolution 1280x1024 at 75Hz (135MHz max pixel rate) Aspect ratio 5:4 Pixel pitch (mm) .294mm Dot/Pixel per Inch 86 dpi Brightness 250 nits or cd/m2 (typical) Contrast ratio 800:1 (typical) Pixel response time 5ms (typical) Color gamut 72% Anti-reflective Anti-reflective, anti-glare 56 to 76Hz Vertical frequency Horizontal frequency 30 to 81kHz 160° (+/- 80°) horizontal, 160° (+/- 80°) vertical Viewing angle at 10:1 CR Tilt, swivel, pivot, and height adjustable stand Sides: 0.6" (15.3mm); top: 0.66" (16.8mm); bottom: 1.05" (26.8mm) 14.9-19.2" H x 16.1" W x 7.4-9.5" D; 378.7-488.7mm H x 408mm W x 188-241.1mm D Stand Bezel width Dimensions (HxWxD) 17 watts typical, 24 watts maximum. Power supply <1 watts standby/suspend, universal, integrated (no external brick-like power supply) 12.5 lb; 5.7kg Weight Limited warranty4 3 year (includes backlight) November 2008 Available date VESA-compliant² VESA DDC2B/CI, VESA DPMS-compliant ENERGY STAR®3 5.0 Power management **Ergonomics** ISO 13406 Part 21 ISO 13406 Part 2"
ISO 13406-2 Class II pixel defect standard
MPR-2. MPR-3A, FCC Class B
TCO 03, WEEE, RoHS (EU Directive 2002/95/EC),
EPEAT™ Gold rating, GREENGUARD® certified Pixel defect Emission standards Environmental Preset resolutions 640x350, 640x480,

Features

- Regular screen 19-inch monitor
- Supports SXGA 1280x1024 resolution
- Ergonomic stand tilts, swivels, pivots and provides a 4.3" (110mm) range height adjustment for comfortable viewing
- Detachable rear stand cable cover and clip to hide cables
- Microsoft® Windows® Vista® certified



with optional ThinkVision Soundbar

Presets / user settings Standard presets: 21; user settings: 17 Tilt: 30° back, 0° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand

Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller) Viewing adjustments Rotating screen On screen display On screen display with digital user controls (8 languages) Direct access (buttons on front) for automatic image setup

Multiple input (two different PCs attach to two different connectors; one PC shows image; select via button) Control features Multiple input (1) VGA 15-pin D-shell, analog, blue (2) Digital Visual Interface (DVI-D), digital, white, **HDCP-compliant** (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter Monitor connectors Signal cables (2) detachable, DVI-D at each end, digital, 1.8 meter Mounting features Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Security Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Ship group

Monitor, attached stand, cable cover, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter digital signal cable, 1.8 meter black power cord

Limited Warranty

720x400 800x600

1024x768

1280x1024

SVGA: XGA:

SXGA:

- 3 year limited warranty⁴
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims
- Service upgrade options:7
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212) • 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)

 - 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)
 - 4 year, mail exchange (51J0589)
 - 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period4

Accessories

ThinkVision Soundbar	45K1263
Kensington® MicroSaver® Cable Lock	73P2582
Kensington Twin Head Cable Lock	45K1620
Lenovo Easy Reach Monitor Stand	55Y9258

See details at www.lenovo.com/support/monitoraccessories

Name L1951p Wide Flat Panel Monitor Case color Business black Type-model 2448-HB6 Panel TFT-LCD, twisted nematic (TN), CCFL backlight **19.0"** (**481mm**) diagonal 16.07" x 10.05" (408.2mm x 255.2mm) Viewable image size Max view area (W x H) 1440x900 at 60Hz Optimum resolution Maximum resolution 1440x900 at 75Hz (137MHz max pixel rate) Aspect ratio 16:10 Pixel pitch (mm) .285mm Dot/Pixel per Inch 89 dpi Brightness 250 nits or cd/m2 (typical) Contrast ratio 1000:1 (typical) Pixel response time 5ms (typical) Color gamut 72% Anti-reflective Anti-reflective, anti-glare 50 to 76Hz Vertical frequency Horizontal frequency 30 to 81kHz 160° (+/- 80°) horizontal, 160° (+/- 80°) vertical Tilt and height adjustable stand Viewing angle at 10:1 CR Stand Init and neight adjustable stand Sides: 0.61" (15.6mm); top: 0.67" (17.1mm); bottom: 1.2" (30.5mm) 14.56-17.71" H x 17.36" W x 6.11" D; 369.9-449.9mm H x 440.9mm W x 155.2mm D 19 watts typical, 23 watts maximum, Bezel width Dimensions (HxWxD) Power supply <1 watts standby/suspend, universal, integrated (no external brick-like power supply) 9.37 lb; 4.25kg 3 year (includes backlight)</p> Weight Limited warranty4 October 2009 Available date VESA-compliant² VESA DDC2B/CI, VESA DPMS-compliant **ENERGY STAR® 5.0** Power management **Ergonomics** ISO 9241-307 MPR-2. MPR-3A, FCC Class B TCO (TCO Displays 5.0), WEEE, RoHS, Emission standards Environmental **EPEAT™** Gold rating Preset resolutions 640x350, 640x480, 720x400 VGA: SVGA: 800x600, 832x624 XGA: 1024x768, 1152x864

Features

- Widescreen 19-inch monitor
- Supports WXGA+ 1440x900 resolution
- Ergonomic stand tilts and provides a 3.1" (80mm) range height adjustment for comfortable viewing
- Includes dual input connection for attachment to two systems concurrently (analog and digital)

 Reduces mercury content by 50% and arsenic free glass

 Up to 70% recycled packaging materials

- Privacy Filter Ślot
- Microsoft® Windows® 7 certified



ThinkVision L1951p Wide Monitor

Accessories

user settings: 20 Tilt: 20° back, -3° forward; lift: 3.1" (80mm); detachable stand Viewing adjustments Rotating screen None On screen display On screen display with digital user controls (8 languages) Control features Direct access (buttons on front) for automatic image setup Dual input (two different PCs attach to two different connectors; one PC shows image; select via button) Multiple input Monitor connectors

1280x720, 1360x768

1280x1024

1440x900

Standard presets: 27;

SXGA: WXGA

WXGA+

Presets / user settings

Signal cables

24x78 day toll-free support for warranty issues during the warranty period4

(1) VGA 15-pin D-shell, analog, blue (2) Digital Visual Interface (DVI-D), digital, white, **HDCP-compliant** (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

(2) detachable, DVI-D at each end, digital, 1.8 meter

Mounting features Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Security

Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

Monitor, attached stand, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor Ship group installation files, 1.8 meter analog signal cable, 1.8 meter digital signal cable, 1.8 meter black power cord

Limited Warranty ThinkVision Soundbar 3 year limited warranty⁴ 45K1263 Kensington® MicroSaver® Cable Lock 73P2582 Kensington Twin Head Cable Lock 45K1620 Rapid Replacement Service at 1-800-426-7378 Lenovo Easy Reach Monitor Stand 55Y9258 Replacement normally arrives in two business days, excluding holidays Lenovo pays all shipping costs for valid warranty claims Service upgrade options:7 • 3 year, on site exchange, Mon-Fri 9-5 with next day response See details at www.lenovo.com/support/monitoraccessories (ThinkPlus™ part number 41C9209) • 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212) • 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233) See all monitors at www.lenovo.com/thinkvision • 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216) • 4 year, mail exchange (51J0589) 5 year, mail exchange (51J0590)

Name LT1952p Wide Flat Panel Monitor Case color Business black Type-model 2448-MB6 Panel TFT-LCD, twisted nematic (TN), White LED backlight 19" (482.6mm) diagonal 16.07" x 10.05" (408.2mm x 255.2mm) 1440x900 Viewable image size Max view area (W x H) Optimum resolution Max pixel rate 137MHz Aspect ratio 16:10 Pixel pitch (mm) 0.2835mm Dot/Pixel per Inch 89.4 dpi Brightness 250 nits or cd/m2 (typical) Contrast ratio 1000:1 (typical) Pixel response time 5ms (typical) Color gamut 72% 72%
Anti-reflective, anti-glare
170° horizontal, 160° vertical
Tilt, swivel, and height adjustable stand
Sides: 0.61" (15.6mm); top: 0.67" (17.1mm);
bottom: 1.2" (30.5mm)
15.66-19.99" H x 17.36" W x 6.74" D;
397.7-507.7mm H x 440.9mm W x 171.3mm D Anti-reflective Viewing angle at 10:1 CR Stand Bezel width Dimensions (HxWxD) 3 watts typical, 17 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply) 9.49 lb; 4.30kg Power supply Weight 3 year (includes backlight) Limited warranty4 Available date September 2011 VESA-compliant² VESA DDC2B/CI ENERGY STAR® 5.1 Power management ISO 9241-307 **Ergonomics** Emission standards MPR-2, FCC Class B TCO Displays 5.2, TCO Certified Edge 1.1, WEEE, RoHS, **EPEAT™ Gold rating**, ULE Gold Environmental Preset resolutions VGA: 640x350, 640x480, 720x400 SVGA: 800x600 XGA: 1024x768, 1152x864 SXGA: 1280x1024 WXGA: 1280x768, 1366x768

WXGA+:

1440x900

Features

- Widescreen 19-inch monitorSupports 1440x900 resolution
- Ergonomic stand tilts, swivel, and provides a 4.3" (110mm) range height adjustment for comfortable viewing
- Cable Management for better user experience
- Mercury and arsenic free glass
- Recycled content in plastic material
- Privacy Filter Slot
- Microsoft® Windows® 7 certified



ThinkVision LT1952p Wide Monitor

Presets / user settings Standard presets: 22; user settings: 22 Tilt: 20° back, -3° forward; lift: 4.3" (110mm); swivel: +/-180°; detachable stand Viewing adjustments Rotating screen None On screen display with digital user controls (8 languages) On screen display Direct access (buttons on front) for automatic image setup, input switch, and brightness
Triple input (three different PCs attach to three different connectors; one PC shows image; select via button) Control features Multiple input (1) VGA 15-pin D-shell, analog, blue
(2) DisplayPort, digital, black, HDCP-compliant
(3) Digital Visual Interface (DVI-D), digital, white, **HDCP-compliant**(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DVI-D at each end, digital, 1.8 meter Monitor connectors Signal cables Note: DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537) Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Mounting features Security

Security Security Keyhole for attachment of optional cable lock (Kensington® lock-compatible)

Ship group Monitor, attached stand, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord

Accessories Limited Warranty DisplayPort to DisplayPort Monitor Cable ThinkVision Soundbar Kensington MicroSaver Cable Lock Kensington Twin Head Cable Lock Laptor Sourist Cable Lock 0A36537 3 year limited warranty⁴ 45K1263 73P2582 ➢ International Warranty Service⁵ Rapid Replacement Service at 1-800-426-7378 45K1620 Replacement normally arrives in two business days, excluding holidays Lenovo Security Cable Lock 57Y4303 Lenovo pays all shipping costs for valid warranty claims ThinkCentre Extend Arm 57Y4352 Service upgrade options:7 Lenovo Easy Reach Monitor Stand 55Y9258 • 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209) See details at www.lenovo.com/support/monitoraccessories • 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212) • 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233) • 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216) See all monitors at www.lenovo.com/thinkvision • 4 year, mail exchange (51J0589) • 5 year, mail exchange (51J0590)

24x78 day toll-free support for warranty issues during the warranty period4

L2250p Wide Flat Panel Monitor Name Case color Business black Type-model 2572-HB6 Panel TFT-LCD, twisted nematic (TN), CCFL backlight **22.0"** (**559mm**) diagonal 18.7" x 11.7" (473.8mm x 296.1mm) Viewable image size Max view area (W x H) 1680x1050 at 60Hz Optimum resolution Maximum resolution 1680x1050 at 75Hz (205MHz max pixel rate) Aspect ratio 16:10 Pixel pitch (mm) .282mm Dot/Pixel per Inch 90 dpi Brightness 250 nits or cd/m2 (typical) Contrast ratio 1000:1 (typical) Pixel response time 5ms (typical) Color gamut 72% Anti-reflective Anti-reflective, anti-glare 50 to 75Hz Vertical frequency Horizontal frequency 30 to 83kHz 30 to 83kHz 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical Tilt and height adjustable stand *Sides:* 0.60" (15.3mm); *top:* 0.79" (20.0mm); *bottom:* 1.10" (28.0mm) 15.68-18.83" H x 19.92" W x 6.11" D; 398.3-478.3mm H x 506mm W x 155.2mm D 21 wette typical 28 watts maximum Viewing angle at 10:1 CR Stand Bezel width Dimensions (HxWxD) 21 watts typical, 28 watts maximum. Power supply 21 watts typical, 20 watts maximum, <1 watts standby/suspend, universal, integrated (no external brick-like power supply) 11.49 lb; 5.21kg Weight 3 year (includes backlight) Limited warranty4 October 2009 Available date VESA DDC2B/CI, VESA DPMS-compliant ENERGY STAR® 5.0 VESA-compliant² Power management **Ergonomics** ISO 9241-307 MPR-2. MPR-3A, FCC Class B TCO (TCO Displays 5.0), WEEE, RoHS, EPEAT™ Gold rating Emission standards Environmental Preset resolutions 640x350, 640x480, 720x400 VGA: SVGA: 800x600 XGA: 1024x768,1152x864 SXGA: 1280x1024 WXGA+: 1440x900

Features

- Widescreen 22-inch monitor
- Supports WSXGA+ 1680x1050 resolution
- Ergonomic stand tilts and provides a 3.1" (80mm) range height adjustment for comfortable viewing
- Includes dual input connection for attachment to two systems concurrently (analog and digital)

 Reduces mercury content by 50% and arsenic free glass

 Up to 65% recycled packaging materials

- Privacy Filter Ślot
- Microsoft® Windows® 7 certified



ThinkVision L2250p Wide Monitor

Presets / user settings Standard presets: 24; user settings: 20 Tilt: 20° back, -3° forward; lift: 3.1" (80mm); detachable stand Viewing adjustments Rotating screen None On screen display On screen display with digital user controls (8 languages) Control features Direct access (buttons on front) for automatic image setup USB hub None Camera

1600x1000

WSXGA+: 1680x1050

Multiple input Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

Monitor connectors

UXGA:

(1) VGA 15-pin D-shell, analog, blue (2) Digital Visual Interface (DVI-D), digital, white, **HDCP-compliant** (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter (2) detachable, DVI-D at each end, digital, 1.8 meter Signal cables

Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Mounting features Security

Monitor, attached stand, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter digital signal cable, 1.8 meter black power cord Ship group

Limited Warranty

- 3 year limited warranty⁴
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims
- Service upgrade options:7
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212)
 - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
 - 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)
 - 4 year, mail exchange (51J0589)
 - 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period4

Accessories

ThinkVision Soundbar 45K1263 Kensington MicroSaver® Cable Lock Kensington Twin Head Cable Lock 73P2582 45K1620 Lenovo Easy Reach Monitor Stand 55Y9258

See details at www.lenovo.com/support/monitoraccessories

L2251p Wide Flat Panel Monitor Name Case color Business black Type-model 2572-HD6 Panel TFT-LCD, twisted nematic (TN), CCFL backlight **22.0"** (**559mm**) diagonal 18.7" x 11.7" (473.8mm x 296.1mm) Viewable image size Max view area (W x H) 1680x1050 at 60Hz Optimum resolution Maximum resolution 1680x1050 at 75Hz (205MHz max pixel rate) Aspect ratio 16:10 Pixel pitch (mm) .282mm Dot/Pixel per Inch 90 dpi Brightness 250 nits or cd/m2 (typical) Contrast ratio 1000:1 (typical) Pixel response time 5ms (typical) Color gamut 72% Anti-reflective Anti-reflective, anti-glare 50 to 75Hz Vertical frequency Horizontal frequency 30 to 83kHz 30 to 83KHZ 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical Tilt, swivel, pivot, and height adjustable stand *Sides*: 0.60" (15.3mm); *top*: 0.79" (20.0mm); *bottom*: 1.10" (28.0mm) 14.46-18.79" H x 19.92" W x 9.50" D; 367.3-477.3mm H x 506mm W x 241.2mm D Viewing angle at 10:1 CR Stand Bezel width Dimensions (HxWxD) 21 watts typical, 28 watts maximum, Power supply <1 watts standby/suspend, universal, integrated (no external brick-like power supply) 12.94 lb; 5.88kg Weight 3 year (includes backlight) Limited warranty4 October 2009 Available date VESA DDC2B/CI, VESA DPMS-compliant ENERGY STAR®3 5.0 VESA-compliant² Power management **Ergonomics** ISO 9241-307 MPR-2. MPR-3A, FCC Class B TCO (TCO Displays 5.0), WEEE, RoHS, Emission standards Environmental **EPEAT™** Gold rating Preset resolutions 640x350, 640x480, 720x400 VGA:

SVGA: 800x600 XGA: 1024x768,1152x864

SXGA: 1280x1024 WXGA+: 1440x900 UXGA: 1600x1000 WSXGA+: 1680x1050

Presets / user settings Standard presets: 24; user settings: 20

Viewing adjustments Rotating screen On screen display Control features USB hub Camera Multiple input

Tilt: 30° back, 0° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller) On screen display with digital user controls (8 languages) Direct access (buttons on front) for automatic image setup

None None Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

Monitor connectors

Signal cables

(1) VGA 15-pin D-shell, analog, blue (2) DisplayPort, digital, black, **HDCP-compliant** (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter (2) detachable, DisplayPort at each end, digital, 1.8 meter

Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Mounting features Security

Monitor, attached stand, cable cover, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter DisplayPort cable, 1.8 meter black power cord Ship group

Limited Warranty

- 3 year limited warranty⁴
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims
- Service upgrade options:7
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212)
 - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
 - 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)
 - 4 year, mail exchange (51J0589)
 - 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period4

Features

- Widescreen 22-inch monitor
- Supports WSXGA+ 1680x1050 resolution
- Ergonomic stand tilts, swivels, pivots and provides a 4.3" (110mm) range height adjustment for comfortable viewing
- Detachable rear stand cable cover and clip to hide cables Reduces mercury content by 50% and arsenic free glass
- Up to 60% recycled packaging materials
 Privacy Filter Slot
- Microsoft® Windows® 7 certified



ThinkVision L2251p Wide Monitor

Accessories

ThinkVision Soundbar 45K1263 Kensington® MicroSaver® Cable Lock Kensington Twin Head Cable Lock 73P2582 45K1620 Lenovo Easy Reach Monitor Stand 55Y9258

See details at www.lenovo.com/support/monitoraccessories

Name LT2252p Wide Flat Panel Monitor Case color Business black Type-model 2572-MB6 Panel TFT-LCD, twisted nematic (TN), White LED backlight Viewable image size 22" (559mm) diagonal Max view area (W x H) (473.8mm x 296.1mm) 1680x1050 Optimum resolution Max pixel rate 205MHz Aspect ratio 16:10 Pixel pitch (mm) 0.282mm Dot/Pixel per Inch 90 dpi Brightness 250 nits or cd/m2 (typical) Contrast ratio 1000:1 (typical) 5ms (typical) Pixel response time Color gamut 72%
Anti-reflective, anti-glare
170° horizontal, 160° vertical
Tilt, swivel, pivot, and height adjustable stand
Sides: 0.60" (15.3mm); top: 0.79" (20.0mm);
bottom: 1.10" (28.0mm)
14.46-18.79" H x 19.92" W x 9.50" D;
367.3-477.3mm H x 506mm W x 241.2mm D Anti-reflective Viewing angle at 10:1 CR Stand Bezel width Dimensions (HxWxD) 20 watts typical, 26 watts maximum, Power supply <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply) 12.97lb; 5.89kg Weight Limited warranty⁴ Available date 3 year (includes backlight) September 2011 VESA-compliant² VESA DDC2B/CI ENERGY STAR®3 5.1 Power management ISO 9241-307 **Ergonomics** Emission standards MPR-2, FCC Class B TCO Displays 5.2, TCO Certified Edge 1.1, WEEE, RoHS, **EPEAT™ Gold rating**, ULE Gold Environmental Preset resolutions VGA: 640x350, 640x480, 720x400 SVGA: 800x600 XGA: 1024x768, 1152x864 SXGA: 1280x1024 WXGA: 1280x768, 1280x800, 1366x768 1440x900 WXGA+: 1600x900

Features

- Widescreen 22-inch monitor
- Supports 1680x1050 resolution
- Ergonomic stand tilts, swivels, pivots and provides a 4.3" (110mm) range height adjustment for comfortable viewing

 Cable Management for better user experience
- Mercury and arsenic free glass
- Recycled content in plastic material
- Privacy Filter Slot
- Microsoft® Windows® 7 certified



WSXGA+: 1680x1050 Presets / user settings Standard presets: VGA/DisplayPort: 26; DVI-D: 25; ThinkVision LT2252p Wide Monitor user settings: 25 Tilt: 30° back, 0° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand

Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller) Viewing adjustments Rotating screen On screen display On screen display with digital user controls (8 languages) Control features Direct access (buttons on front) for automatic image setup, input switch, and brightness USB hub None Camera None (1) VGA 15-pin D-shell, analog, blue
(2) DisplayPort, digital, black, **HDCP-compliant**(3) Digital Visual Interface (DVI-D) for digital attach [white], **HDCP-compliant**(1) detachable, VGA 15-pin D-shell at each end analog 1 9 mater. Triple input (three different PCs attach to three different connectors; one PC shows image; select via button) Multiple input Monitor connectors Signal cables (2) detachable, DVI-D at each end, digital, 1.8 meter Note: DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537) Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Mounting features Security Monitor, attached stand, cable cover, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord Ship group

Limited Warranty	Accessories		
 ⇒ 3 year limited warranty⁴ ⇒ International Warranty Service⁵ ⇒ Rapid Replacement Service at 1-800-426-7378 ⇒ Replacement normally arrives in two business days, excluding holidays ⇒ Lenovo pays all shipping costs for valid warranty claims⁶ ⇒ Service upgrade options:⁷ • 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209) 	DisplayPort to DisplayPort Monitor Cable ThinkVision Soundbar Kensington® MicroSaver® Cable Lock Kensington Twin Head Cable Lock Lenovo Security Cable Lock ThinkCentre Extend Arm Lenovo Easy Reach Monitor Stand	0A36537 45K1263 73P2582 45K1620 57Y4303 57Y4352 55Y9258	
 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212) 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233) 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216) 4 year, mail exchange (51J0589) 5 year, mail exchange (51J0590) 24x78 day toll-free support for warranty issues during the warranty period4 	See details at www.lenovo.com/support/monitoraccessories See all monitors at www.lenovo.com/thinkvision		

L2251x Wide Flat Panel Monitor Name Case color **Business black** Type-model 2578-HB6 Panel TFT-LCD, twisted nematic (TN), white LED backlight **22.0"** (**559mm**) diagonal 18.7" x 11.7" / 473.8mm x 296.1mm Viewable image size Max view area (W x H) 1680x1050 at 60Hz Optimum resolution Maximum resolution 1680x1050 at 75Hz (205MHz max pixel rate) Aspect ratio 16:10 Pixel pitch (mm) .282mm Dot/Pixel per Inch 90 dpi Brightness 250 nits or cd/m2 (typical) Contrast ratio 1000:1 (typical) 5ms (typical) Pixel response time Color gamut 68% Anti-reflective Anti-reflective, anti-glare 50 to 75Hz Vertical frequency Horizontal frequency 30 to 83kHz 30 To 83KHZ 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical Tilt, swivel, pivot, and height adjustable stand *Sides*: 0.60" (15.3mm); *top*: 0.79" (20.0mm); *bottom*: 1.10" (28.0mm) 14.97-19.3" H x 19.92" W x 9.50" D; 380.3-490.3mm H x 506mm W x 241.2mm D 21 watts typical 28 watts maximum Viewing angle at 10:1 CR Stand Bezel width Dimensions (HxWxD) 21 watts typical, 28 watts maximum. Power supply <1 watts standby/suspend, universal, integrated (no external brick-like power supply) 12.39 lb; 5.63kg Weight 3 year (includes backlight) Limited warranty4 November 2009 Available date VESA DDC2B/CI, VESA DPMS-compliant ENERGY STAR®3 5.0 VESA-compliant² Power management Ergonomics ISO 9241-307 Emission standards MPR-2. MPR-3A, FCC Class B TCO (TCO Certified Edge), WEEE, RoHS, Environmental **EPEAT™** Gold rating Preset resolutions 640x350, 640x480, 720x400 VGA: SVGA: 800x600 XGA: 1024x768,1152x864

1280x1024

1440x900

Limited Warranty

SXGA:

WXGA+:

Features

- Widescreen 22-inch monitor with white LED backlight • Ergonomic stand tilts, swivels, pivots and provides a 4.3" (110mm) range height adjustment for comfortable viewing
- Detachable rear stand cable cover and clip to hide cables
- Integrated camera (3.0 megapixel) and microphone
- Integrated ambient light sensor and a proximity sensor, save more energy and make viewing more comfortable
- Low halogen, mercury free, and arsenic free glass, 92% recycled packaging materials

 • Privacy Filter Slot
- Microsoft® Windows® 7 certified



Accessories

1600x1000 UXGA: WSXGA+: 1680x1050 ThinkVision L2251x Wide Monitor Standard presets: 24; user settings: 20 Presets / user settings Tilt: 30° back, 0° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand

Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller) Viewing adjustments Rotating screen On screen display On screen display with digital user controls (8 languages) Control features Direct access (buttons on front) for automatic image setup USB 2.0 Hub (1 port into PC, 3 ports for accessories) USB hub Integrated camera (3.0 megapixel) and microphone

Dual input (two different PCs attach to two different connectors; one PC shows image; select via button) Camera Multiple input (1) VGA 15-pin D-shell, analog, blue (2) DisplayPort, digital, black, **HDCP-compliant** (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter (2) detachable, DisplayPort at each end, digital, 1.8 meter Monitor connectors Signal cables Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Mounting features Security Ship group

Monitor, attached stand, cable cover, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter DisplayPort cable, 1.8 meter USB cable, 1.8 meter black power cord

 ⇒ 3 year limited warranty⁴ ⇒ International Warranty Service⁵ 	ThinkVision Soundbar Kensington® MicroSaver® Cable Lock	45K1263 73P2582
Rapid Replacement Service at 1-800-426-7378	Kensington Twin Head Cable Lock	45K1620
Replacement normally arrives in two business days, excluding holidays	Lenovo Easy Reach Monitor Stand	55Y9258
→ Service upgrade options: ⁷		
 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209) 	See details at www.lenovo.com/support/moni	toraccessories
• 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212)		
• 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)	See all monitors at www.lenovo.com/thinkvisi	on
• 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)		
• 4 year, mail exchange (51J0589)		
• 5 year, mail exchange (51J0590)		
24x78 day toll-free support for warranty issues during the warranty period4		

L2321x Wide Flat Panel Monitor Name Case color **Business black** Type-model 4014-HB6 Panel TFT-LCD, twisted nematic (TN), CCFL backlight **23.0"** (**584mm**) diagonal 20.04" x 11.28" / 509.2mm x 286.4mm Viewable image size Max view area (W x H) 1920x1080 Optimum resolution Dual screen function Function as two monitors (need both VGA and DisplayPort connected), hardware based solution Arsenic free glass provies 4 patterns of screen split (2:1, 1:1, 1:2, PIP) Microsoft® Windows® 7 certified Aspect ratio 16:9 Pixel pitch (mm) .265mm Dot/Pixel per Inch 96 dpi Brightness 250 nits or cd/m2 (typical) Contrast ratio 1000:1 (typical) Pixel response time 5ms (typical) Color gamut 72% Anti-reflective, anti-glare Anti-reflective Vertical frequency 50 to 75Hz Horizontal frequency 30 to 83kHz Viewing angle at 10:1 CR 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical Tilt, swivel, pivot, and height adjustable stand Sides: 0.69" (17.6mm); top: 0.72" (18.2mm); bottom: 0.79" (20.1mm) 14.72-19.05" H x 21.49" W x 9.49" D; 373.9-483.9mm H x 545.9mm W x 241.1mm D Stand Bezel width Dimensions (HxWxD) 24 watts typical, 28 watts maximum, Power supply <1 watts standby/suspend, universal, integrated (no external brick-like power supply) 14.75 lb; 6.69kg 3 year (includes backlight) Weight Limited warranty4 July 2010 Available date VESA-compliant² VESA DDC2B/CI, VESA DPMS-compliant Power management ENERGY STAR®3 5.0 Ergonomics ISO 9241-307 Emission standards MPR-2, FCC Class B TCO (TCO Certified Edge), WEEE, RoHS, EPEAT™ Gold rating Environmental Preset resolutions NTSC, PAL, 640x350, 640x480, 800x600, 832x624, 960x1080, 1024x768, 1152x864, 1280x1024, 1280x1080, 1366x768 1440x900, 1680x1050, 1920x1080

Features

Widescreen 23-inch monitor

• 1080p full HD support, HDCP-compliant

Function as two monitors, hardware based solution provies 4 patterns of screen split (2:1, 1:1, 1:2, PIP modes).

• Ergonomic stand tilts, swivels, pivots and provides a 4.3" (110mm) range height adjustment for comfortable viewing

Compliance with ENERGY STAR 5.0



ThinkVision L2321x Wide Monitor

Presets / user settings Presets: 26(VGA), 25(DisplayPort); user settings: 20 Tilt: 30° back, 0° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand Viewing adjustments Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller, Rotating screen

do not support image rotation under dual image modes)

On screen display with digital user controls (8 languages)

1280x1080 + 640x1080

640x1080 + 1280x1080 960x1080 + 960x1080 640x480 in 1920x1080

Control features Direct access (buttons on front) for automatic image setup and image select (Dual image [2:1, 1:1, 1:2, PIP modes],

Swap, Single VGA, and Single DisplayPort)
USB 2.0 Hub (1 port into PC, 4 ports for accessories)
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button) Multiple input

(1) VGA 15-pin D-shell, analog, blue (2) DisplayPort, digital, black, **HDCP-compliant** Monitor connectors

(2:1): (1:2): (1:1): (PIP):

Signal cables detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

(1) detachable, VĞA 15-pin D-shell at each end, analog, 1.8 meter (2) detachable, DisplayPort at each end, digital, 1.8 meter Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Mounting features

Security Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

Monitor, attached stand, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor Ship group installation files, analog signal cable, DisplayPort cable, 1.8 meter USB cable, 1.8 meter black power cord

Limited Warranty

3 year limited warranty⁴

Dual image resolution

On screen display

USB hub

- International Warranty Service⁵
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims⁶
- Service upgrade options:7
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212)
 - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
 - 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)
 - 4 year, mail exchange (51J0589)
- 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period4

Accessories

ThinkVision Soundbar 45K1263 Kensington® MicroSaver® Cable Lock 73P2582 Kensington Twin Head Cable Lock 45K1620

See details at www.lenovo.com/support/monitoraccessories

Name L2440p Wide Flat Panel Monitor Case color Business black Type-model 4420-HB2 Panel TFT-LCD, twisted nematic (TN), CCFL backlight **24.0**" (**610mm**) diagonal 20.4" x 12.8" (518.4mm x 324.0mm) Viewable image size Max view area (W x H) Optimum resolution 1920x1200 at 60Hz Maximum resolution 1920x1200 at 60Hz (205MHz max pixel rate) Aspect ratio 16:10 Pixel pitch (mm) .270mm Dot/Pixel per Inch 94 dpi Brightness 300 nits or cd/m2 (typical) Contrast ratio 1000:1 (typical) Pixel response time 5ms (typical) Color gamut 72% Anti-reflective Anti-reflective, anti-glare 50 to 75Hz Vertical frequency 30 to 94kHz Horizontal frequency 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical Tilt, swivel, pivot, and height adjustable stand Viewing angle at 10:1 CR Stand im, swiver, pivot, and neight adjustable stand Sides: 0.78" (19.9mm); top: 0.78" (19.9mm); bottom: 1.12" (28.4mm) 15.54-19.87" H x 22" W x 8.04-10.13" D; 394.8-504.8mm H x 559.6mm W x 204.3-257.3mm D 35 watts typical, 50 watts maximum, Bezel width Dimensions (HxWxD) Power supply 1 watts standby/suspend, universal, integrated (no external brick-like power supply) 17.84 lb; 8.09kg Weight Limited warranty⁴ 3 year (includes backlight) October 2008 Available date VESA-compliant² VESA DDC2B/CI, VESA DPMS-compliant Power management ENERGY STAR®3 5.0 ISO 13406 Part 2¹
ISO 13406-2 Class II pixel defect standard
MPR-2. MPR-3A, FCC Class B
TCO 03, WEEE, RoHS (EU Directive 2002/95/EC),
EPEAT^{IM} Gold rating, GREENGUARD® certified **Ergonomics** Pixel defect Emission standards Environmental Preset resolutions 640x350, 640x480, 720x400 SVGA: 800x600 XGA: 1024x768,1152x864 SXGA: 1280x1024 WXGA: 1360x768

Features

- Widescreen 24-inch monitor
- Supports WUXGA 1920x1200 resolution
- High Definition (HD) ready; supports 1080p video
- Ergonomic stand tilts, swivels, pivots and provides a 4.3" (110mm) range height adjustment for comfortable viewing Detachable rear stand cable cover and clip to hide cables
- · Carrying handle
- 65% recycled packaging materials
- Microsoft® Windows® Vista® Premium certified



ThinkVision L2440p Wide Monitor

Presets / user settings Standard presets: 27; user settings: 20 Tilt: 30° back, 0° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller), Viewing adjustments Rotating screen On screen display with digital user controls (8 languages) On screen display Direct access (buttons on front) for automatic image setup USB 2.0 Hub (1 port into PC, 4 ports for accessories)

Multiple input (two different PCs attach to two different connectors; one PC shows image; select via button) Control features USB hub Multiple input (1) VGA 15-pin D-shell, analog, blue (2) Digital Visual Interface (DVI-D), digital, white, **HDCP-compliant** Monitor connectors Signal cables (1) detachable, VGA 15-pin D-shell at each end, analog, 2.2 meter (2) detachable, DVI-D at each end, digital, 2.2 meter Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Mounting features Security

Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Ship group

Monitor, attached stand, cable cover, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 2.2 meter analog signal cable, 2.2 meter digital signal cable, 2.2 meter USB cable, 1.8 meter black power cord

Limited Warranty

- 3 year limited warranty⁴
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims⁶

WXGA+:

WSXGA+:

WUXGA:

UXGA:

1440x900

1600x1200

1680x1050

1920x1200

- Service upgrade options:7
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212)
 - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
 - 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)
 - 4 year, mail exchange (51J0589)
 - 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period4

Accessories

ThinkVision Soundbar 45K1263 Kensington® MicroSaver® Cable Lock Kensington Twin Head Cable Lock 73P2582 45K1620 Lenovo Easy Reach Monitor Stand 55Y9258

See details at www.lenovo.com/support/monitoraccessories

LT2452p Wide Flat Panel Monitor Name Case color Business black Type-model 4420-MB2 TFT-LCD, e-IPS, White LED backlight Panel 24" (610mm) diagonal Viewable image size 20.4" x 12.8" (518.4mm x 324.0mm) Max view area (W x H) Optimum resolution 1920x1200 Max pixel rate 202.5MHz Aspect ratio 16:10 Pixel pitch (mm) 0.270mm Dot/Pixel per Inch 94 dpi Brightness 300 nits or cd/m2 (typical) Contrast ratio 1000:1 (typical) 7ms (GtG) Pixel response time Color gamut 72% 72%
Anti-reflective, anti-glare
178° horizontal, 178° vertical
Tilt, swivel, pivot, and height adjustable stand
Sides: 0.78" (19.9mm); top: 0.78" (19.9mm);
bottom: 1.12" (28.4mm)
15.54-19.87" H x 22" W x 10.13" D;
394.8-504.8mm H x 559.6mm W x 257.3mm D Anti-reflective Viewing angle at 10:1 CR Stand Bezel width Dimensions (HxWxD) 30 watts typical (w/o USB hub), Power supply 40 watts maximum (w/o USB hub), <0.5 watts standby/suspend (w/o USB hub), universal, integrated (no external brick-like power supply) 14.70 lb; 6.67kg Weight Limited warranty⁴ 3 year (includes backlight) September 2011 Available date VESA DDC2B/CI VESA-compliant² Power management ENERGY STAR®3 5.1 ISO 9241-307 Ergonomics MPR-2, FCC Class B TCO Displays 5.2, TCO Certified Edge 1.1, WEEE, RoHS, **EPEAT™ Gold rating**, ULE Gold Emission standards Environmental Preset resolutions VGA: 640x350, 640x480, 720x400 SVGA: 800x600 XGA: 1024x768,1152x864 SXGA: 1280x1024 WXGA: 1280x768, 1280x800, 1366x768 WXGA+: 1440x900 UXGA: 1600x1200 WSXGA+: 1680x1050

Features

- Widescreen 24-inch monitor
- Supports 1920x1200 resolution
- High Definition (HD) ready; supports 1080p video
- Ergonomic stand tilts, swivels, pivots and provides a 4.3" (110mm) range height adjustment for comfortable viewing
- Cable Management for better user experience
- Carrying handle
- Recycled content in plastic material
 Microsoft® Windows® 7 certified



ThinkVision LT2452p Wide Monitor

Full HD: 1920x1080 WUXGA: 1920x1200 Standard presets: 30; Presets / user settings user settings: 20 Tilt: 30° back, 0° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller) Viewing adjustments Rotating screen On screen display On screen display with digital user controls (8 languages) Direct access (buttons on front) for automatic image setup, input switch, and brightness USB 2.0 Hub (1 port into PC, 4 ports for accessories)

Triple input (three different PCs attach to three different connectors; one PC shows image; select via button) Control features USB hub Multiple input (1) VGA 15-pin D-shell, analog, blue
(2) DisplayPort, digital, black, HDCP-compliant
(3) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter Monitor connectors (1) detachable, VGA 15-pin D-shell at each end, anal (2) detachable, DVI-D at each end, digital, 1.8 meter Signal cables Note: DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537) Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) Security keyhole for attachment of optional cable lock (Kensington® lock-compatible) Mounting features Security Monitor, attached stand, cable cover, Setup poster, Safety and Warranty Information, CD with multilingual User's Guide and monitor installation files, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter USB cable, Ship group 1.8 meter black power cord

Limited Warranty

- 3 year limited warranty⁴
- International Warranty Service⁵
- Rapid Replacement Service at 1-800-426-7378
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims⁶
- Service upgrade options:
 - 3 year, on site exchange, Mon-Fri 9-5 with next day response (ThinkPlus™ part number 41C9209)
 - 3 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9212)
 - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
 - 4 year, on site exchange, 7 day x 24 hr with 4 hour response (41C9216)
 - 4 year, mail exchange (51J0589)
 - 5 year, mail exchange (51J0590)
- 24x78 day toll-free support for warranty issues during the warranty period4

Accessories

DisplayPort to DisplayPort Monitor Cable 0A36537 ThinkVision Soundbar 45K1263 73P2582 Kensington MicroSaver Cable Lock Kensington Twin Head Cable Lock 45K1620 Lenovo Security Cable Lock 57Y4303 ThinkCentre Extend Arm 57Y4352 Lenovo Easy Reach Monitor Stand 55Y9258

See details at www.lenovo.com/support/monitoraccessories

lenovo



ThinkVision® USB Soundbar (40Y7616)





ThinkVision Soundbar (45K1263)



Lenovo Easy Reach Monitor Stand (55Y9258)



Kensington® MicroSaver® Cable Lock from Lenovo (73P2582) Kensington Twin Head Cable Lock from Lenovo (45K1620) Lenovo Security Cable Lock (57Y4303)



ThinkCentre Extend Arm (57Y4352)

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Lenovo USB-to-DVI Monitor Adapter (45K5296)



Lenovo DisplayPort to VGA Monitor Cable (57Y4393)

Lenovo DisplayPort to Single-link DVI-D Monitor Cable (45J7915)

Lenovo Mini-DisplayPort to VGA Monitor Cable (0A36536)

Lenovo DisplayPort to DisplayPort Monitor Cable (0A36537)

Lenovo® Monitor Accessories

Monitor Accessories⁴⁶ (all part numbers listed are US option P/N)
Lenovo USB-to-DVI Monitor Adapter **
Lenovo DisplayPort to VGA Monitor Cable **
DisplayPort to Single-link DVI-D Cable **
S7Y4393 ann 08/04/09
45J7915 ann 08/05/08
Lenovo Mini-DisplayPort to VGA Monitor Cable **
Supports a maximum 1920 x 1200 monitor resolution.
Lenovo DisplayPort to DisplayPort Monitor Cable**
OA36536 ann 05/17/11
***Hardware requirement:
All Lenovo systems and monitors with
DisplayPort 1 1a or 1 2 interface 45K5296 ann 05/12/09 57Y4393 ann 08/04/09 45J7915 ann 08/05/08

Lenovo Security Cable Lock ThinkCentre Extend Arm DisplayPort 1.1a or 1.2 interface.

ThinkVision® USB Soundbar ThinkVision Soundbar Kensington® MicroSaver® Cable Lock 40Y7616 ann 08/23/05 45K1263 ann 09/16/08 73P2582 ann 12/29/03 45K1620 ann 09/30/08 57Y4303 ann 08/24/10 Kensington Twin Head Cable Lock Lenovo Easy Reach Monitor Stand 55Y9258 ann 09/22/09 57Y4352 ann 07/06/10

Compatibility matrix

	Adapter	DisplayPort to VGA Cable (57Y4393)	to DVI-D Cable	Mini-DisplayPort to VGA Monitor Cable (0A36536)	USB Soundbar	Soundbar	Cable Lock	Cable Lock	Cable Lock	Easy Reach Monitor Stand (55Y9258)	Extend Arm (57Y4352)
LT1421							X	X	Х		
L1711p	Х*	Х	Х	Х		Х	Х	Х	Х	Х	Х
D186		Х		Х			Х	Х	Х	Х	Х
L197	Х	Х	X	Х	Х		Х	X	Х	Х	Х
L1900p	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х
L1951p	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х
LT1952p	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х
L2021	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х
LS2221				Х			Х	Х	Х	Х	Х
L2250p	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х
L2251p	Х	Х		Х		Х	Х	Х	Х	Х	Х
LT2252p	Х	Х	X	Х		Х	Х	Х	Х	Х	Х
L2251x	Х	Х		Х		Х	Х	Х	Х	Х	Х
L2321x	Х	Х		Х		Х	Х	Х	Х	Х	Х
LS2421p)			Х			Х	Х	Х	Х	Х
L2440p	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х
LT2452p	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х
L2461x		Х		Х			Х	Х	Х	Х	Х
End of m	narketing										
≍ L151	х	Х			Х		Х	X		Х	
L151p	Х	Х	Х		Х		Х	Х		Х	
∠ L171	Х	Х			Х		Х	Х		Х	
≈ L171p	Х	Х	Х		Х		Х	Х		Х	
≈ L172	х	Х			Х		Х	Х		Х	
≈ L174	Х	Х	Х		Х		Х	Х		Х	
	X	X	X		X		X	X		X	
✓ D185	X	X	X			Х	X	X		X	
	X	X	X		Х		X	X		X	
∠ L191	X	X			X		X	X		X	
∠ L192p	X	X	Х		X		X	X		X	
∠ L192p	X	X	X		X		X	X		X	
<u>~ L193β</u> ≻ L194	X	X	×		×		X	X		X	
<u>~ L194</u> ≽ L1940p	X	X	×		X		X	X		X	
≈ L1940p × L200p	X	X	X		X		X	X		X	
∠ L201p	X	X	X		Х		X	X	.,	X	
∠ L2060	X	X	X				X	X	Х	X	X
× L215	X	X	X			X	X	X		X	
∠ L215p	Х	Х				Х	Х	X		Х	
∠ L220x	Х	Х			X		Х	X		X	
∠ L2230x	Х	X				Х	Х	Х	Х	Х	X
∠ L2240p	X	Х	X		Х		Х	X		Х	
. 1 0 4 4 0											

^{*} Character "x": option supported on monitor

>< L2440x

More information at www.lenovo.com/support/monitoraccessories

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

- 1 ISO-compliant: Compliance with ISO 9241 Part 3, ISO Part 7, ISO Part 8, and/or ISO 13406 Part 2 is dependent on a complete ISO-capable platform of a system unit, monitor, video subsystem, operating system and fonts.
- VESA: Requires attachment to suitably configured system with similarly enabled operating system.
- ³ ENERGY STAR: As an ENERGY STAR partner, Lenovo has determined that this product meets the ENERGY STAR 4.0 or 4.1 guidelines for energy efficiency. Requires attachment to suitably configured system.
- Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
- International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.
- 6 Lenovo pays all shipping costs for warranty repairs during limited warranty period.

- 7 ThinkPlus and Lenovo Care Services: These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See terms and conditions for complete details and restrictions.
- Telephone support may be subject to additional charges, even during the limited warranty period. In the United States call 1-800-426-7378. Response times may vary. May exclude some holidays. If a machine is listed as having "On-site service for select repairs", this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, Lenovo will provide the customer a replacement part for customer installation. The parts for which onsite service is available varies by machine, but may include the processor, power supply, heat sink, system board, or base cover. For machines with EasyServ or Courier service, Lenovo will attempt to diagnose and resolve the problem remotely before sending a courier.
- TAA: Monitor is compliant with the U.S. Federal Government's country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.
- Post-warranty annual maintenance agreement: Service begins at the end of the base warranty or the end of any other applied warranty and maintenance option, whichever occurs last. Service delivery is not available the same day the maintenance agreement is purchased. Maintenance agreements must be purchased and the registration successfully completed prior to the service being available.
- Halogen: Less than 900 Parts Per Million. Low halogen is defined in accordance with IPC-401B and draft IPC-J-STD 709 Class 1 requirements.



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